

# PATENT ABSTRACTS OF JAPAN

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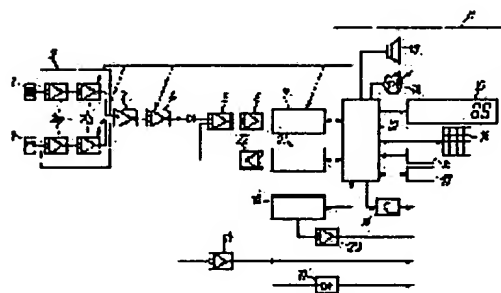
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## (54) TERMITE DETECTION SYSTEM

### (57)Abstract:

**PURPOSE:** To provide the subject system consisting of such a specific scheme as to transduce the living sound of termite into electric signals, thus capable of easily catching termite living status and also of realizing early detection of the damages due to termite by its installation in buildings.

**CONSTITUTION:** Firstly, the living sound of termite is transduced by two acoustic sensors 1, 1 into electric signals which are then inputted into an operational processor 3 where an operational processing is made to determine the difference between the two signals. Second, the signals subjected to operational processing are inputted into a comparator 5. Among these signals, those exceeding a specified threshold value are outputted as termite detection signals. Furthermore, these signals are sent, e.g. via a level transducer 6 and an event counter 7, to a display assessment section 8 where an assessment processing is conducted by a microprocessor 12, and the assessment of termite living status is ensured to inform through an event buzzer 13, a display device 15, etc.



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**CLAIMS**

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[Claim(s)]

[Claim 1] Termite detection equipment characterized by providing two acoustic sensors which change the habitation sound of a termite into an electrical signal, the subtraction processor which carries out subtraction processing of the electric signal from these acoustic sensors, and the comparator which outputs the signal level after bigger subtraction processing than a predetermined threshold as a detection signal of a termite.

[Claim 2] Termite detection equipment characterized by providing two acoustic sensors which change the habitation sound of a termite into an electrical signal, the subtraction processor which carries out subtraction processing of the electric signal from these acoustic sensors, the comparator which outputs the signal level after bigger subtraction processing than a predetermined threshold as a detection signal of a termite, and the display judgment section which judges the detection situation of a termite based on the output signal from this comparator.

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[Translation done.]